

# THM7-SH144 Series

10BB HALF-CELL Monocrystalline PERC PV Module

**530-555W**

POWER RANGE

**21.48%**

MAXIMUM EFFICIENCY

**0.55%**

YEARLY DEGRADATION

**12** 12 YEARS PRODUCT WARRANTY

**25** 25 YEARS OUTPUT GUARANTEE

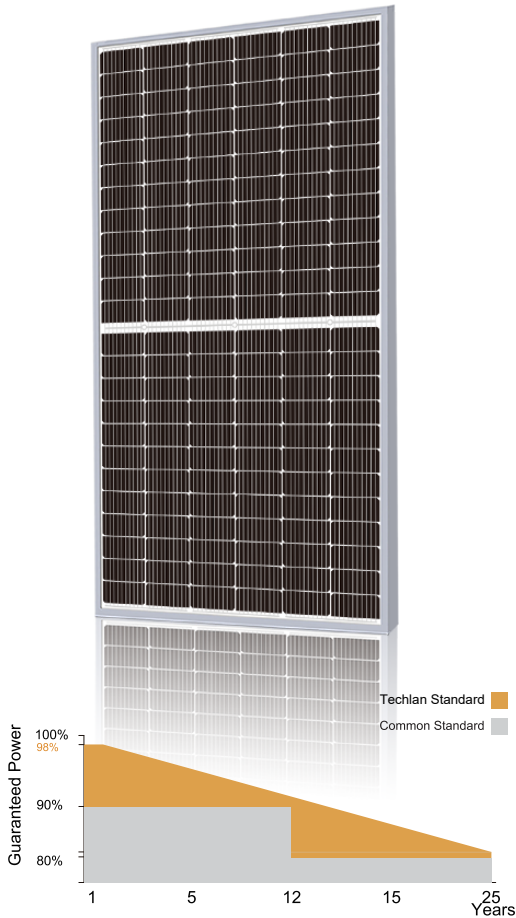


IEC 61215/IEC 61730/IEC 61701/IEC 62716/UL6 1730

ISO 14001: Environmental Management System

ISO 9001: Quality Management System

ISO45001: Occupational Health and Safety Management System



\*Please check the valid version of Limited Product Warranty which is officially released by PT. Techlan Solar Indonesia

## KEY FEATURES



### Excellent Cells Efficiency

MBB technology reduce the distance between busbars and finger grid line which is benefit to power increase.



### Better Weak Illumination Response

More power output in weak light condition, such as haze, cloudy, and early morning.



### Anti PID

Ensured PID resistance through the quality control of cell manufacturing process and raw materials.



### Adapt To Harsh Outdoor Environment

Resistant to harsh environments such as salt, ammonia, sand, high temperature and high humidity environment.



### TIER 1

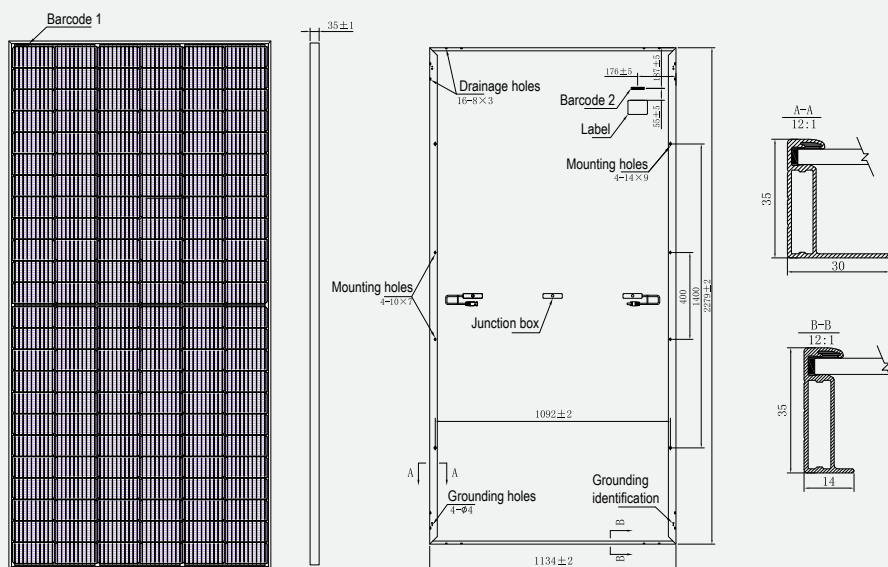
Global, Tier 1 bankable brand, with independently certified advanced automated manufacturing.



### Excellent Quality Management System

Warranted reliability and stringent quality assurances well beyond certified requirements.

### DIMENSIONS OF PV MODULE(mm)

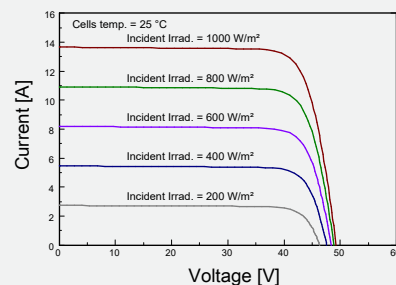


Front View

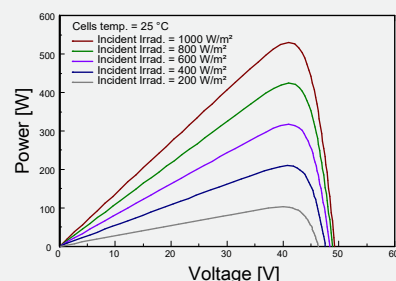
Back View

\*Remark: customized frame color and cable length available upon request

### I-V CURVES OF PV MODULE(530W)



### P-V CURVES OF PV MODULE(530W)



### ELECTRICAL CHARACTERISTICS | STC\*

Nominal Power Watt Pmax(W)*	530	535	540	545	550	555
Maximum Power Voltage Vmp(V)	41.00	41.20	41.40	41.60	41.80	42.00
Maximum Power Current Imp(A)	12.94	13.00	13.05	13.11	13.16	13.22
Open Circuit Voltage Voc(V)	49.30	49.50	49.70	49.90	50.10	50.30
Short Circuit Current Isc(A)	13.66	13.72	13.78	13.84	13.90	13.96
Module Efficiency (%)	20.51	20.70	20.89	21.09	21.28	21.48

\*The data above is for reference only and the actual data is in accordance with the practical testing  
 \*STC (Standard Test Condition): Irradiance 1000W/m², Module Temperature 25±2°C, AM 1.5  
 \*Measuring uncertainty: ±3%, all the electrical characteristics such as Power, Im, Vm and FF are within ±3% tolerance.

### MECHANICAL DATA

Solar cells	Mono PERC
Cells orientation	144 (6x24)
Module dimension	2279x1134x35 mm (With Frame)
Weight	28±1kg
Glass	3.2mm, High Transmission, AR Coated Tempered Glass
Junction box	IP 68, 3 diodes
Cables	4 mm² ,350 mm (With Connectors)
Connectors*	MC4-compatible

\*Please refer to regional datasheet for specified connector

### ELECTRICAL CHARACTERISTICS | NMOT

Maximum Power Pmax(Wp)	396.30	400.00	403.50	407.20	410.80	414.70
Maximum Power Voltage Vmpp(V)	38.20	38.30	38.50	38.70	38.90	39.00
Maximum Power Current Impp(A)	10.39	10.43	10.48	10.52	10.57	10.62
Open Circuit Voltage Voc(V)	46.10	46.20	46.40	46.60	46.80	47.00
Short Circuit Current Isc(A)	11.03	11.08	11.13	11.18	11.22	11.27

\*NMOT: Irradiance 800W/m², Ambient Temperature 20°C, AM 1.5, Wind Speed 1m/s

### TEMPERATURE RATINGS

NMOT	44°C ±2°C	Maximum system voltage	1500 V DC
Temperature coefficient of Pmax	-0.35%/°C	Operating temperature	-40°C~+85°C
Temperature coefficient of Voc	-0.29%/°C	Maximum series fuse	25 A
Temperature coefficient of Isc	0.05%/°C	Front Side Maximum Static Loading	Up to 5400 Pa
		Rear Side Maximum Static Loading	Up to 2400 Pa

\*Remark: Do not connect Fuse in Combiner Box with two or more strings in parallel connection  
 \*Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.  
 \*Caution: Please be kindly advised that PV modules should be handled and installed by qualified people who have professional skills and please carefully read the safety and installation instructions before using our PV modules.

### PACKAGING CONFIGURATION \*

Piece/Box	31
Piece/Container(40'HQ)	620

\*Customized packaging is available upon request.

### PT. Techlan Solar Indonesia

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